



## Performance Data Sheet

### AWF5517EXN

#### General Information

|                       |                          |                                 |             |
|-----------------------|--------------------------|---------------------------------|-------------|
| <b>Model</b>          | AWF5517EXN               | <b>Refrigerant</b>              | R-22        |
| <b>Test Condition</b> | ARI                      | <b>Performance Test Voltage</b> | 230V ~ 60HZ |
| <b>Return Gas</b>     | 18.3°C (65°F) RETURN GAS | <b>Motor Type</b>               | PSC         |

#### Performance Information

| Evap Temp (°F) | Condensing Temperature (°F) |       |       |       |      |      |      |      |
|----------------|-----------------------------|-------|-------|-------|------|------|------|------|
|                |                             | 80    | 90    | 100   | 110  | 120  | 130  | 140  |
| <b>-15</b>     | Btu/h                       | 4020  | 3600  |       |      |      |      |      |
|                | Watts                       | 642   | 659   |       |      |      |      |      |
|                | Amps                        | 2.98  | 3.03  |       |      |      |      |      |
|                | Lb/h                        | 51.9  | 48.4  |       |      |      |      |      |
| <b>-10</b>     | Btu/h                       | 4800  | 4250  | 3700  |      |      |      |      |
|                | Watts                       | 696   | 714   | 718   |      |      |      |      |
|                | Amps                        | 3.20  | 3.26  | 3.27  |      |      |      |      |
|                | Lb/h                        | 61.6  | 56.8  | 51.5  |      |      |      |      |
| <b>-5</b>      | Btu/h                       | 5800  | 5130  | 4450  | 3750 |      |      |      |
|                | Watts                       | 750   | 771   | 778   | 773  |      |      |      |
|                | Amps                        | 3.42  | 3.50  | 3.52  | 3.50 |      |      |      |
|                | Lb/h                        | 74.0  | 68.0  | 61.5  | 54.1 |      |      |      |
| <b>0</b>       | Btu/h                       | 7030  | 6220  | 5410  | 4590 | 3750 |      |      |
|                | Watts                       | 803   | 829   | 840   | 839  | 825  |      |      |
|                | Amps                        | 3.63  | 3.74  | 3.78  | 3.77 | 3.72 |      |      |
|                | Lb/h                        | 89.0  | 81.9  | 74.2  | 65.7 | 56.1 |      |      |
| <b>5</b>       | Btu/h                       | 8480  | 7530  | 6580  | 5620 | 4660 |      |      |
|                | Watts                       | 854   | 886   | 903   | 907  | 898  |      |      |
|                | Amps                        | 3.84  | 3.97  | 4.05  | 4.06 | 4.03 |      |      |
|                | Lb/h                        | 107   | 98.4  | 89.6  | 80.0 | 69.3 |      |      |
| <b>10</b>      | Btu/h                       | 10100 | 9050  | 7960  | 6870 | 5760 | 4650 | 3520 |
|                | Watts                       | 900   | 941   | 966   | 977  | 975  | 961  | 939  |
|                | Amps                        | 4.03  | 4.20  | 4.31  | 4.35 | 4.35 | 4.30 | 4.23 |
|                | Lb/h                        | 127   | 117   | 108   | 96.9 | 85.1 | 72.0 | 57.3 |
| <b>15</b>      | Btu/h                       | 12000 | 10800 | 9550  | 8310 | 7070 | 5820 | 4550 |
|                | Watts                       | 942   | 992   | 1030  | 1050 | 1050 | 1050 | 1030 |
|                | Amps                        | 4.20  | 4.41  | 4.56  | 4.64 | 4.67 | 4.65 | 4.60 |
|                | Lb/h                        | 149   | 139   | 128   | 116  | 104  | 89.4 | 73.6 |
| <b>20</b>      | Btu/h                       | 14100 | 12700 | 11300 | 9950 | 8560 | 7170 | 5770 |
|                | Watts                       | 976   | 1040  | 1080  | 1110 | 1130 | 1130 | 1130 |
|                | Amps                        | 4.34  | 4.61  | 4.80  | 4.92 | 4.99 | 5.01 | 5.00 |
|                | Lb/h                        | 174   | 162   | 151   | 138  | 124  | 109  | 92.6 |

|    |       |       |       |       |       |       |       |       |
|----|-------|-------|-------|-------|-------|-------|-------|-------|
| 25 | Btu/h | 16300 | 14800 | 13300 | 11800 | 10200 | 8710  | 7160  |
|    | Watts | 1000  | 1080  | 1140  | 1180  | 1210  | 1220  | 1230  |
|    | Amps  | 4.45  | 4.77  | 5.02  | 5.19  | 5.31  | 5.37  | 5.39  |
|    | Lb/h  | 200   | 188   | 176   | 162   | 148   | 132   | 114   |
| 30 | Btu/h | 18800 | 17100 | 15500 | 13800 | 12100 | 10400 | 8730  |
|    | Watts | 1020  | 1110  | 1180  | 1240  | 1280  | 1310  | 1320  |
|    | Amps  | 4.52  | 4.90  | 5.21  | 5.44  | 5.61  | 5.73  | 5.80  |
|    | Lb/h  | 229   | 216   | 203   | 189   | 173   | 156   | 138   |
| 35 | Btu/h | 21400 | 19600 | 17800 | 16000 | 14100 | 12300 | 10500 |
|    | Watts | 1030  | 1130  | 1220  | 1300  | 1350  | 1390  | 1420  |
|    | Amps  | 4.54  | 5.00  | 5.37  | 5.67  | 5.90  | 6.07  | 6.19  |
|    | Lb/h  | 260   | 247   | 232   | 217   | 201   | 183   | 164   |
| 40 | Btu/h | 24300 | 22300 | 20300 | 18300 | 16400 | 14400 | 12400 |
|    | Watts | 1020  | 1150  | 1250  | 1340  | 1420  | 1470  | 1520  |
|    | Amps  | 4.52  | 5.05  | 5.50  | 5.86  | 6.16  | 6.40  | 6.58  |
|    | Lb/h  | 293   | 279   | 264   | 248   | 231   | 213   | 193   |
| 45 | Btu/h | 27300 | 25200 | 23000 | 20900 | 18700 | 16600 | 14500 |
|    | Watts | 1000  | 1150  | 1270  | 1380  | 1470  | 1550  | 1610  |
|    | Amps  | 4.44  | 5.05  | 5.58  | 6.03  | 6.40  | 6.70  | 6.95  |
|    | Lb/h  | 327   | 312   | 297   | 281   | 263   | 244   | 223   |
| 50 | Btu/h | 30500 | 28200 | 25900 | 23600 | 21300 | 19000 | 16700 |
|    | Watts | 966   | 1130  | 1280  | 1410  | 1520  | 1620  | 1700  |
|    | Amps  | 4.29  | 5.00  | 5.62  | 6.14  | 6.59  | 6.98  | 7.30  |
|    | Lb/h  | 363   | 348   | 332   | 315   | 297   | 277   | 256   |
| 55 | Btu/h | 33800 | 31400 | 28900 | 26400 | 24000 | 21500 | 19100 |
|    | Watts | 914   | 1110  | 1280  | 1430  | 1560  | 1680  | 1780  |
|    | Amps  | 4.08  | 4.89  | 5.60  | 6.22  | 6.75  | 7.22  | 7.62  |
|    | Lb/h  | 401   | 385   | 369   | 351   | 333   | 312   | 290   |

| COEFFICIENTS | CAPACITY      | POWER         | CURRENT       | MASS FLOW     |
|--------------|---------------|---------------|---------------|---------------|
| C1           | 1.351200E+04  | -1.188406E+02 | -4.636889E-01 | 1.537408E+02  |
| C2           | 4.902042E+02  | -3.145012E+00 | -2.565651E-02 | 4.904975E+00  |
| C3           | -8.361749E+01 | 2.136360E+01  | 9.828863E-02  | -1.186842E+00 |
| C4           | 4.810296E+00  | -3.255856E-01 | -1.284656E-03 | 4.125704E-02  |
| C5           | -2.863646E+00 | 2.183596E-01  | 1.131751E-03  | -1.910614E-02 |
| C6           | 6.018276E-02  | -1.439915E-01 | -7.085484E-04 | 7.931541E-03  |
| C7           | -6.280328E-03 | -1.859951E-03 | -7.605741E-06 | -1.256555E-04 |
| C8           | -5.829081E-03 | 3.442407E-03  | 1.348008E-05  | 1.183945E-04  |
| C9           | 9.919167E-04  | -6.119709E-04 | -3.498104E-06 | -1.784866E-05 |
| C10          | -3.432325E-04 | 2.626950E-04  | 1.502326E-06  | -4.016656E-05 |

$$\text{Value} = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3$$

Te = Evaporator Temperature

Tc = Condensing Temperature